

Science and Invention



Detachable Collar

UST where the idea of wearing a collar originated no one seems to be able to establish definitely. All of the official ures of Adam show him without Information from the time he the styles until the aboriginal

Vague as the origin of the scheme wearing some sort of an adornent on the isthmus which connects e head and the shoulders may be, tainable-namely, that 1919 is the

ite like those of to-day, but athed firmly to the shirt with which ev were to be worn.

Those were the days when houseives looked forward with concern Housewives had no launesses, be it known, and seven shirts with collars attached meant considerable effort at the family tub.

Solved by a Woman

It was a woman's problem, and it e awake nights trying to figure out | That every swimmer may be a

night the blacksmith tried it on.

That week she had the lightest washbecause of the lack of knowledge lived and blacksmithed.

Montague was proud of her handi-

stiff linen collar finally came and it ever need arises.

cause one can plough all day with aviators in the manner of rescue and resuscitation work, showing, to this end the Red Cross is under- Dr. Yandell Henderson, before the Mr. Longfellow is an expert swim- at once, also."

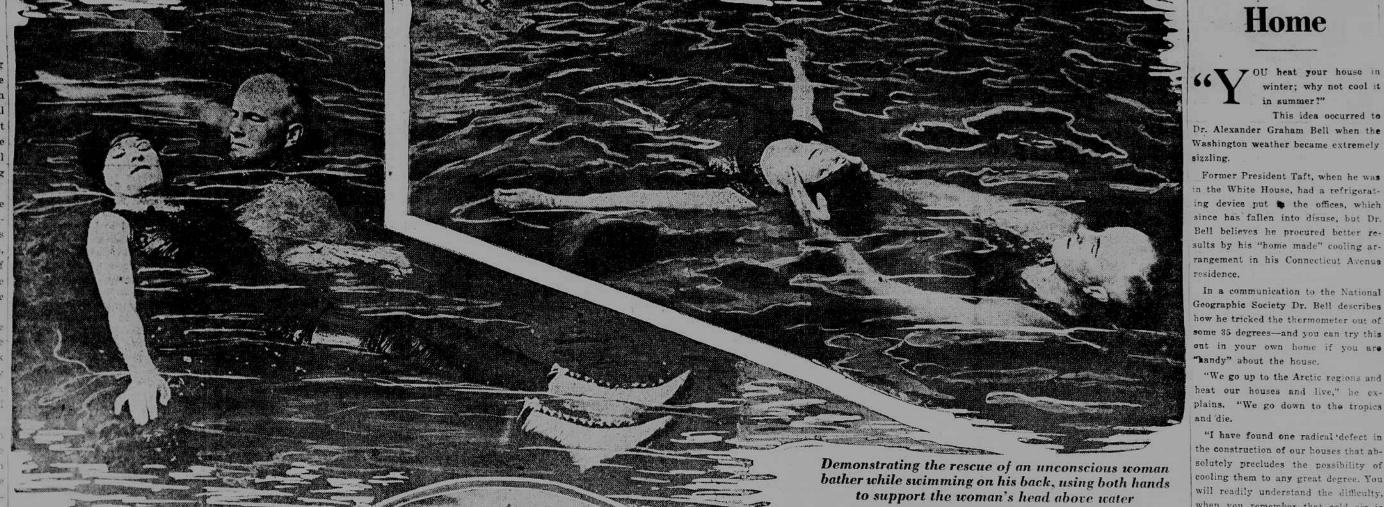
To-day in Troy

Now two hundred thousand yards factory in the town where Hannah Montague used to toil away on considerable less than one yard an eptirs working day. One ton of goes on to say: thread is used every week in the "There is one aspect of immigration Effect of Immigration

It remained for an enterprising of time.
"This comes from two facts. The

1819—one hundred years ago. square blocks of collar and shirt United States.





Captain F. C. Mills, of the Life-Saving Section of the Atlantic Division of the American Red Cross, showing under-arm method of supporting drowning person

OTS of perfectly good barrels have been ruined by rolling drowned peowas a woman who solved it. Hannah | Lert E. Longfellow, expert authority Montague was the wife of a big, on athletics and water sports, who u ky blacksmith. It is hard to is field agent for the Life-Saving lacksmith. Mrs. Montague used to dietum of the swimming expert.

collar separate from the shirt. She women are drowned before the eyes lost no time, and the next day made of hundreds of onlookers because no

ing that had ever been known in among average people of the means Troy up to that time-for it was in of resuscitation, which, modern dis-Troy, N. Y., that the Mon agues | covery shows, can prove effective after a person has been under water as long as thirty-five minutes.

It is the present effort of the Red work and lost considerable time at Cross to spread broadcast a knowl- and resuscitation. The Fort Tilden among other things, that it is taking an extensive campaign of in- not exist Captain Mills and his ast to every one that passed.

There have been hundreds of no community will be without its There have been hundred to the community will be without its There have been hundred to the community will be without its There have been hundred to the community will be without its There have been hundred to the community will be without the community

Not the least of the developments ods before officers and men at the time in peril from the water, is a Cross workers. is the celluloid collar and its shining United States Naval Air Station, case in point. ally, the rubber collar, which is Fort Tilden, Rockaway, recently, At Sheepshead Bay exhibitions knowledge of rescue and resuscita- perts to be the most effective means States through arrangements made gun at once. Send for a doctor at it came over my head. The tank was found practical in the country be- afterward instructing the naval were also given recently of rescue tion be spread among children, and of artificial respiration known and by the Red Cross.

There have been hundreds of changes in that old-fashioned stock changes in the that Hannah Montague made. The particular sort of "first aid" when- naval and army aviators, among weighing more than 200 pounds. year in the United States and a In the Boy Scouts of America the whom such knowledge is not only These demonstrations were given large percentage could be saved life-saving section of the Red Cross that can be used the cold air into the tank. is considered the standard of the Captain Frederick C. Mills, in desirable but essential. The recent with the aid of Charles Scully, a were intelligent, scientific treatment has found a splendid medium for present day. In itself it represents charge of life-saving activity in the experiences of the men on the NC well known United States life promptly applied, the Red Cross educating the masses in water first "Work of resuscitation after the Cold Air Red Cross Atlantic Division, gave flying boats, near the Azores, where guard, who has a long list of res- experts claim. a demonstration of Red Cross meth- members of the crew were a long cues to his credit, and several Red | The Shafer prone-pressure method | demonstrations of prone-pressure re- No patient should be carried any dis-

sistants are forming volunteer life- body temperature. A cup of hot in which were placed large blocks of

to any mechanical means of artifi- suscitation method, he says:

causes smothering, the patient, in

method of resuscitation

cial respiration that has ever been

aid. Boy Scouts have lately given rescue cannot be begun too quickly. "The first effect was the drying of

Cools Bell's Home

This idea occurred to Dr. Alexander Graham Bell when the Washington weather became extremely

Former President Taft, when he was n the White House, had a refrigeratsince has fallen into disuse, but Dr. Bell believes he procured better results by his "home made" cooling arrangement in his Connecticut Avenus In a communication to the National

how he tricked the thermometer out of out in your own home if you are

heat our houses and live," he explains. "We go down to the tropics

"I have found one radical defect in the construction of our houses that absolutely precludes the possibility of cooling them to any great degree. You will readily understand the difficulty, when you remember that cold air is heavier than warm air. You can take third annual resuscitation conven- | mer and widely known as an au- a bucket of cold air, for example, and tion of the National Electric Light | thority on overcoming difficulties in | carry it about in the summer time and Association, proclaimed it superior the water. Describing the best re- not spill a drop; but if you make a hole in the bottom of your bucket, then, "Taken out of the element which of course, the cold air would run out.

Many life guards, it has been the case of drowning, should first be Weather Retreat

learned, know very little about held upside down at an angle of "I began to think that it might be modern methods of resuscitation about 45 degrees, and the float-possible to apply the bucket principle and, in some cases, little about the ing ribs pressed and released sevmore improved methods of break- eral times, allowing the water to ing "strangle holds" and other up- run out of the mouth. Then the home, and thus secure a place of reto-date means of handling drown- patient should be placed face down- treat in the summer time. It seemed ing persons who may prove difficult ward on a flat surface, the hands to be advisable to close up all openings to rescue. The Red Cross is giving pulled from under the body and left near the bottom of the room to preits course to all official life-saving higher than the shoulder level, this vent the escape of cold air and open crews along the coast and at beach action raising the chest walls. In the windows at the top to let out the resorts, and where such crews do this position the tongue will drop heated air of the room.

forward out of the throat and the "Now, it so happens that I have in fluids will continue to run out of the mouth. The back of one of the patient's hands may be placed under tank, and it occurred to me that since his cheek to protect it from the dirt. this tank holds water, it should cer-"The operator kneels astride the tainly hold cold air; so I turned the hips of the patient and rests his water out to study the situation. The hands over the patient's floating tank seemed to be damp and the sides ribs. By leaning the weight for- felt wet and slimy.

ward, straight-arm pressure, out "I reflected, however, that the congoes the water. The pressure is re-leased suddenly, and in comes the densation of moisture resulted from air. Repeating this from twelve to the fact that the sides of the tank fifteen times a minute gives more were cooler than the air admitted. air than natural breatning, and Water vapor will not condense on any three times as much as any other thing that is warmer than itself, and it occurred to me that if I introduced "When the patient is sufficiently air that was very much colder than I resuscitated to be able to swallow- wanted to use, then it would be warmin other words, is conscious-it may ng up in the tank and becoming dryer be necessary to give stimulants. If all the time. It would not deposit the patient's hands are cold and moisture on the sides and would actclammy, he should be covered with a blanket, coat, canvas sail, or any-

saving corps in each community. black coffee or hot tea is a safer ice, covered with salt. This was placed Instruction is given to all persons stimulant than any alcoholic liquid. in another room at a higher elevation

the walls, and then I felt the level of Pross workers.

Of resuscitation, which is used by suscitation before police squads in tance for shelter or to a doctor, but the Red Cross, is declared by exmany of the cities of the United efforts to resuscitate should be beonce, but begin work on the patient full, and I found myself immersed in cool air. I felt so cool and comfortable that it seemed difficult to believe that breathing a hot, damp, muggy atmosof goods are used in a day by one factory in the town where Hannah to conceive is an unusual are now from the lowest one-sixth proved this, the writer says.

HE relation of immigration than one-half the birth rate. New England has from half a million to a million less there is considerable evidence to show tion of the unit. World eugenics is phere. I therefore speedily retreated to conceive it an unusual are now from the lowest one-sixth proved this, the writer says.

> "This result is not merely a selfish the rooms of the house. The doors so far as able, about 65 degrees.

others, it is a gift of psychological en- gratulated the President, then Mr. of that stock would have been if their "On the other hand, if there is no vironment to any one capable of appre-"Further, in addition to the purely the original races, and in a community | "It is important, therefore, that noth-degrees when the thermometer showed

As Immigration Decreases, the Nation's Birth Rate Increases

· Resuscitation by pressure on the floating ribs of a man rescued from drowning

townsman, the Rev. Ebenezer first is that the vacuum left in any Brown, to commercialize the affair. country by emigration is rapidly filled. The writer, Mr. Prescott F. Hall, are driven to a new locality, as hap-races that have supplanted the old act strongly and consistently Mr. Brown conducted a store in up through a rise in birth rate. There believes that so long as the compend in the mining regions; but most Nordic stock in New England are any direction. The classic examples and consistently are driven to a new locality, as hap-races that have supplanted the old act strongly and consistently mr. Brown conducted a store in up through a rise in birth rate. There Troy "at the corner of River Street are more people in England to-day munity is relatively homogeneous are prevented from coming into exist- better, or as good, as the descendants Cuba, Mexico and Brazil and the shipyard," and it wasn't than in the time of Elizabeth, in spite differences in wealth and social polong until his window contained a country to all parts of the world; and or do so "only after a considerable clusion:

factories within a mile radius and "The vacuum is chiefly filled by the their children associate with the world as a whole, there are, after a strong congenital talents can develop, genics among individuals is encourage preponderance of foreign elements decapital to the sum of \$35,000,000 breeding of the lower classes. Thus, children of these immigrants in few years, two million persons of the it is a question whether as many are ing the preparation of the fit and stroys the most persons of the lit is a question whether as many are ing the preparation of the fit and stroys the most persons of the lit is a question whether as many are inguitable.

to eugenics is an unusual of the population. In Italy a similar Continuing: subject dealt with by "The condition fills the vacuum left by the Journal of Heredity," which very large emigration from there to North and South America.

tention, namely, the possibility of its stratum of population tends to sterilize economic superiors. But the business was hardly a use as a method of world eugenics, all strata of higher social and eco"Races follow Gresham's law as to stock into good by changing its meridlucrative one for Mrs. Montague.

Most persons think of migration in nomic levels already in that country.

She could grind out only about one

She could grind out only about one certain number of people from one

The continuous of people from one certain number of people from collar a day, and what with all the certain number of people from one of the matter are agreed that the ter. Mark you supplant; not drive out. into a fine stable, or make a mongrel there is either cross-reeding or there those fittest not 'for survival' merely. labor it took there wasn't much part of the earth's surface to another. United States would have a larger one of the most common fallacies is into a fine dog by teaching it tricks. Is not 17 there is the children of such but fittest for all purposes. The lower in that room was perfectly comfortprofit in the small amount she could expect of it is that of a functioning charge for those she sold.

Whereas the much more important aspect of it is that of a functioning charge for those she sold.

Whereas the much more important aspect of it is that of a functioning charge for those she sold.

She of the most common lattices to interest the much more important aspect of it is that of a functioning charge for those she sold.

She of the most common lattices to interest the much more important aspect of it is that of a functioning charge for those she sold.

She of the most common lattices to interest the much more important aspect of it is that of a functioning charge for those she sold. needless to add, a much more homo- 'driven up' to more responsible posi- when it is done, has anything been of opinions, with the result in many to, thirdly by indication and emulation,

Continuing:

Mr. Hall then proceeds to a con- birth rate had not been lowered?

has been invested in the proposition. according to Professor Pearson, more work or social life, thus lowering lower type in the world, and probably not injured as helped by this. Indeed, limiting or preventing the multiplica- possesses-its own soul."

"This is not to say that other causes do not contribute to lower the birth rate of a country; for that is an almost worldwide phenomenon. But the most worldwide phenomenon. But the "Of course, the euthenist says at not have to attend to such things; but That this subject has a relevant put the refrigerator in the attic and town now to make collars. One spool restriction in the various countries "The second fact is that the im- is as strong a motive to birth central proved. We may grant that, although line of his cwn, to concentrate to his the writer maintains in the followdesire to be separated from inferiors one that these immigrants are in is free to go shead on some special bearing on current world politics which does not often receive much atmigration to any country of a given as the desire for luxury or to ape one's
the improvement is probably much limit or his work, even though that ing: exaggerated. You cannot make and work be lighting the common opinions.

sions. A few may be pushed up; more gained? Will any one say that the cases that they are unable to think or The presence of the highest develop-

lower to higher in the country from a certain homogeneity of development races considered as wholes. Immigra- into the tank, where I was perfectly which the migration goes may remain is necessary. The reason of this is tion restriction is a species of segrega- cool and comfortable. matters are fixed. The individual does diluting and supplanting good stocks." another experiment in my house. I

crossbreeding the diversity exists in clation.

819—one hundred years ago.

To-day in Troy there are seven quare blocks of collar and shirt

To-day in Troy there are seven quare blocks of collar and shirt

To-day in Troy there are seven quare blocks of collar and shirt

To-day in Troy there are seven quare blocks of collar and shirt

To-day in Troy there are seven quare blocks of collar and shirt

To-day in Troy there are seven quare blocks of collar and shirt

To-day in Troy there are seven quare blocks of collar and shirt

To-day in Troy there are seven quare blocks of collar and shirt

To-day in Troy there are given as many sparrows in time." It is when the mentally in-ferior enter by immigration that the natives are unwilling to have it into its life; for, as Le Bow says, a temperature of 65 degrees (the ideal strong congenital talents can develop, genics among individuals is encourage—reponderance of foreign elements de-